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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/084,798	02/27/2002	Hui Fu	053168-5021	7852	
75	90 07/28/2004	EXAM	EXAMINER		
CHARLES E.	WANDS L, DOPPELT, MILBRAT	NGUYEN,	NGUYEN, PHILLIP		
1401 CITRUS		ART UNIT	PAPER NUMBER		
	RANGE AVENUE BOX	2828			
OKLANDO,, F	L 32802-3791	DATE MAILED: 07/28/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Applicatio	n No.	Applicant(s)				
		10/084,79	8	FU ET AL.				
		Examiner		Art Unit				
		Phillip Ngu	·	2828				
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>03</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) Responsi	ve to communication(s) filed on	<u></u> .						
2a) This action	☐ This action is FINAL . 2b) ☐ This action is non-final.							
3)☐ Since this	application is in condition for allow	vance except f	for formal matters, pro	secution as to the	e merits is			
closed in a	accordance with the practice under	r Ex parte Qua	ayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims								
4)⊠ Claim(s) <u>1</u>	4) Claim(s) 1-25 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
<u>'</u>	5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1-25 is/are rejected.							
· · · · · · · · · · · · · · · · · · ·								
<u> </u>	Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers	;							
9)☐ The specif	ication is objected to by the Exami	ner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U	.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
 Notice of Reference Notice of Draftspe 	ces Cited (PTO-892) rson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Da						
• = •	sure Statement(s) (PTO-1449 or PTO/SB/0	5) Notice of Informal Pa		D-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 3-6 and 9-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3 recites "the first pedestal and the second pedestal" which is lack of antecedence basis.

Claim 9 is not clear because fails to further limit the invention since all the claimed features have been claimed in claim 2 and 3 already. It is noted that there is no definition about the name or the location of the "first pedestal" and "second pedestal".

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Norris et al. ('696) in view of Tonehira et al. ('268).

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With respect to claim 1, Norris discloses in Figures 1-2 an optical transmitter comprising a header 41; a hybrid subassembly 40; a laser 11 mounted on the header; a laser driver 45 mounted on the hybrid subassembly except for a trench formed between the header and the hybrid subassembly. Tonehira discloses a laser diode and laser driver IC are mounting on separate memembers to provide themral isolation (paragraph 0003). For the improvement of the transmitter, it would have been obvious to the one having ordinary skill in the art at the time the invention was made to provide a trench between the header and the subassembly to thermally isolate the driver from the laser as suggested by Tonehira.

With respect to claim 2, it is inherent that air trench provides decoupling of the laser driver from the laser.

With respect to claim 3, Norris discloses in Figure 2 a first pedestal 22 and a second pedestal 43.

With respect to claims 4-6, Norris discloses a waveguide 47 to direct energy to the laser from laser driver, which has a curvature.

With respect to claim 7, Norris discloses the laser is a semiconductor laser (col. 1, lines 45-46).

With respect to claim 9-13, Norris discloses the claimed invention as shown in the rejection of claim 2.

With respect to claim 10, providing a sufficient distance formed in the trench to have a good thermal decoupling only involves routine skill in the art.

Claims 14-25 further recite a method for producing an optical transmitter. Since Norris and Tonehira disclose the product, it is inherent product by process for performing methods as recited in the claims.

Citation of Pertinent References

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The patent to Norris et al. discloses Mounting Apparatus for Optical Fiber and Lasers, U.S. Patent No. 4787696

The Patent Application Publication granted to Tonehira et al. discloses Optical Module and Optical Transceiver, U.S. Pub No. 2002/0051268

Communication Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phillip Nguyen whose telephone number is 571-272-1947. The examiner can normally be reached on 9:00 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MINSUM HARVEY, can be reached on 571-272-1835. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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